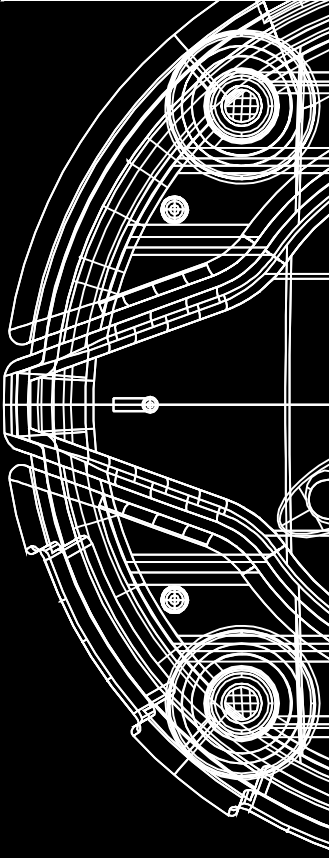

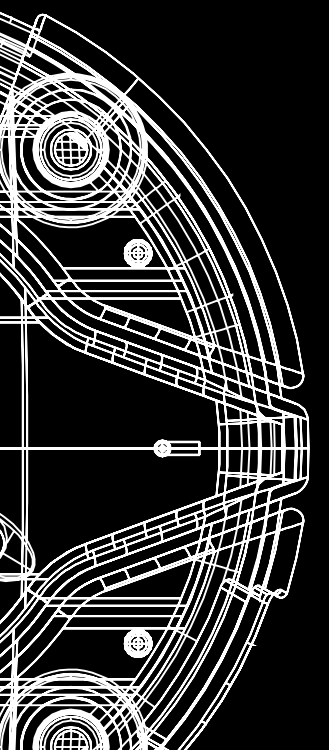

USB 3.0 to HDMI®
Display Adapter

User's Manual

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This manual is designed for use with the USB to HDMI® Adapter. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.
Before attempting to connect, operate or adjust this product, please save and read the User's Manual completely. The style of the product shown in this User's Manual may be different from the actual unit due to various models.

Safety instructions

Always read the safety instructions carefully:

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious sign of breakage.
  - The equipment has not been working well or cannot get it to work according to the User's Manual.

Copyright

This document contains proprietary information protected by copyright. All right are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

Trademarks

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Introduction

The USB3.0 to HDMI® Display Adapter enables you to display your content to two different screens which support HDMI® output. If you need to view three different kinds of content at the same for the multi-task working, no need to add extra graphic card on the desktop with this adapter. It's more convenience and flexible to utilize the adapter on both desktop and laptop.

Features

- Add-on monitor, LCD or projector through a single USB 3.0 port
- Backward compatible with USB 2.0 Standard
- Hot-plug; add or remove monitor without system reboot
- Small in size, works with all HDMI® displays
- Supports High Resolution up to 2048 x 1152
- Extend and Mirror mode support
- Resumes from hibernation and suspend modes
- Supports up to 6 USB display adapter to work simultaneously

Application

Office workstation

- View your large spreadsheets across two screens with display continuity
- Multitask more effectively without overlapping windows
- Edit on one screen while surfing the Internet information on the other

On the road

- Do multiple screen presentations without bringing another computer
- Easily provide multiple screen exhibitions in a trade show

Graphics workstation

- Use second display for palettes/tools
- Get a panoramic view of large documents

Editing workstation

- Type documents on one screen while viewing reference material on the other
- Compare two documents simultaneously across two screens

Financial analysis

- Have one monitor per data stream
- View charts and live data at the same time

Entertainment

- View videos/TV on one screen and reviews on the other
- Get additional perspectives when playing games

Package contents

- USB 3.0 to HDMI® Adapter x1
- CD (Driver & User's Manual) x1
- USB cable x1
- Quick installation guide

System requirement

Hardware

■ The minimum requirements for the PC are:
- With Single Core CPU at 1.2GHz or higher processor clock. Intel® Pentium®/Celeron® family, or AMD® K6® /Athlon®/Duron® family, or compatible processor
- 512MB memory
- At least one USB2.0 port
- 30Mb of available disk space
- Super VGA (800 x 600) or higher resolution monitor

■ To play DVD on the adapter-attached monitor, except the requirements above, the following requirements should also be met:
- With dual core CPU at 2.0 GHz processor clock
- The adapter screen resolution be set to 800x600 with 32bit color. It is recommended to close all other unnecessary applications if the video playback is not smooth.

■ For 1-2 monitors, business usage, productivity target. This may not provide full frame rate DVD playback at full screen.
- 1.2GHz Single Core CPU
- 512MB memory

■ For 3 monitors, where 1 could run DVD video while also targeting productivity and business apps. Will support only 1 video of DVD resolution at full screen
- 1.8GHz CPU
-1GB memory

- For 6 screen where 1 screen can run full screen DVD video
  - 1.6GHz Core Duo
  - 1GB memory

Software

- Windows XP® Home or Professional (Including Table edition) SP2 or SP3,
- Windows Vista® SP1 (32-bit or 64-bit)
- Windows 7® (32-bit or 64 bit)

Specifications

Host Interface	USB 3.0
Video Interface	HDMI®
Connectors	Video output: HDMI® 19 pin Female Connector Host upstream link: USB3.0 Type B Female Connector
Connectivity	Up to 6 adapters on a computer
RAM	256Mb DDR2 SDRAM
Power Mode	Bus-powered
Power Consumption	Operating Power : 234 mA
Operation System Support	Windows XP® Home or Professional SP2 or SP3, Windows Vista® SP1 or SP2 (32-bit or 64-bit), Windows 7® (32-bit or 64-bit)
Supported Modes	Extended Desktop (Default), Mirrored Desktop, Primary Display
Housing	ABS Plastic
Dimensions	92.5 (L) x 52.5 (W) x23 (H) mm
Operating temperature	10-40 degree
Storage temperature	-10~70degree
Relative Humidity	< 85% non-condensing

Resolutions, Refresh rate and color depth

640x480	VGA	60 72 75 85	60 72 75 85
800x600	SVGA	56 60 72 75 85	56 60 72 75 85
1024x768	XGA	60 70 75 85	60 70 75 85
1280x720	720p	60	60
1280x768	WXGA+	60 75 85	60 75 85
1280x800	WXGA	60	60
1280x1024	SXGA	60 75 85	60 75
1366x768	WXGA+	60	60
1400x1050	SXGA+	60 75 85	60 75 85
1600x1200	UXGA	60	60
1680x1050	WSXGA+	60	60
1920x1080	1080p	60	60
2048x1152		60	60

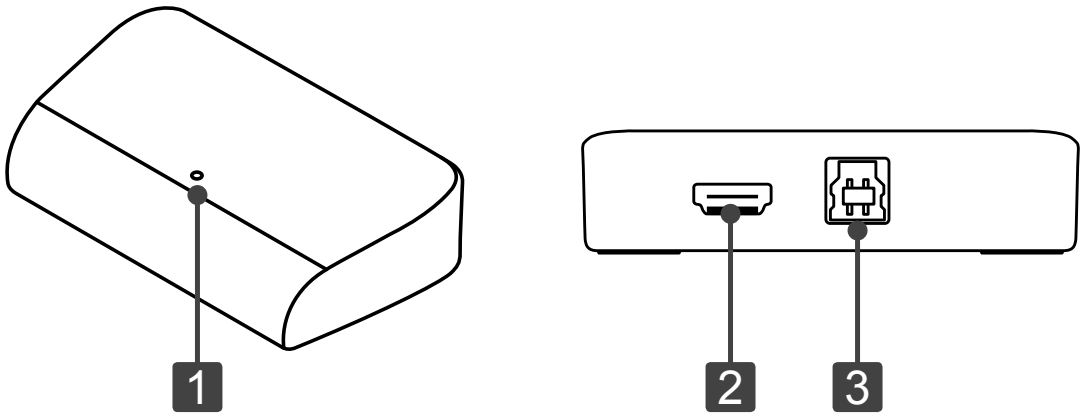
Note that interlaced modes and reduced blanking modes are not supported.

USB Cable

- Separated from the body
- Type: USB 3.0 Type A (Male) to Type B (Male)

Specifications are subject to change without notice.

Product overview



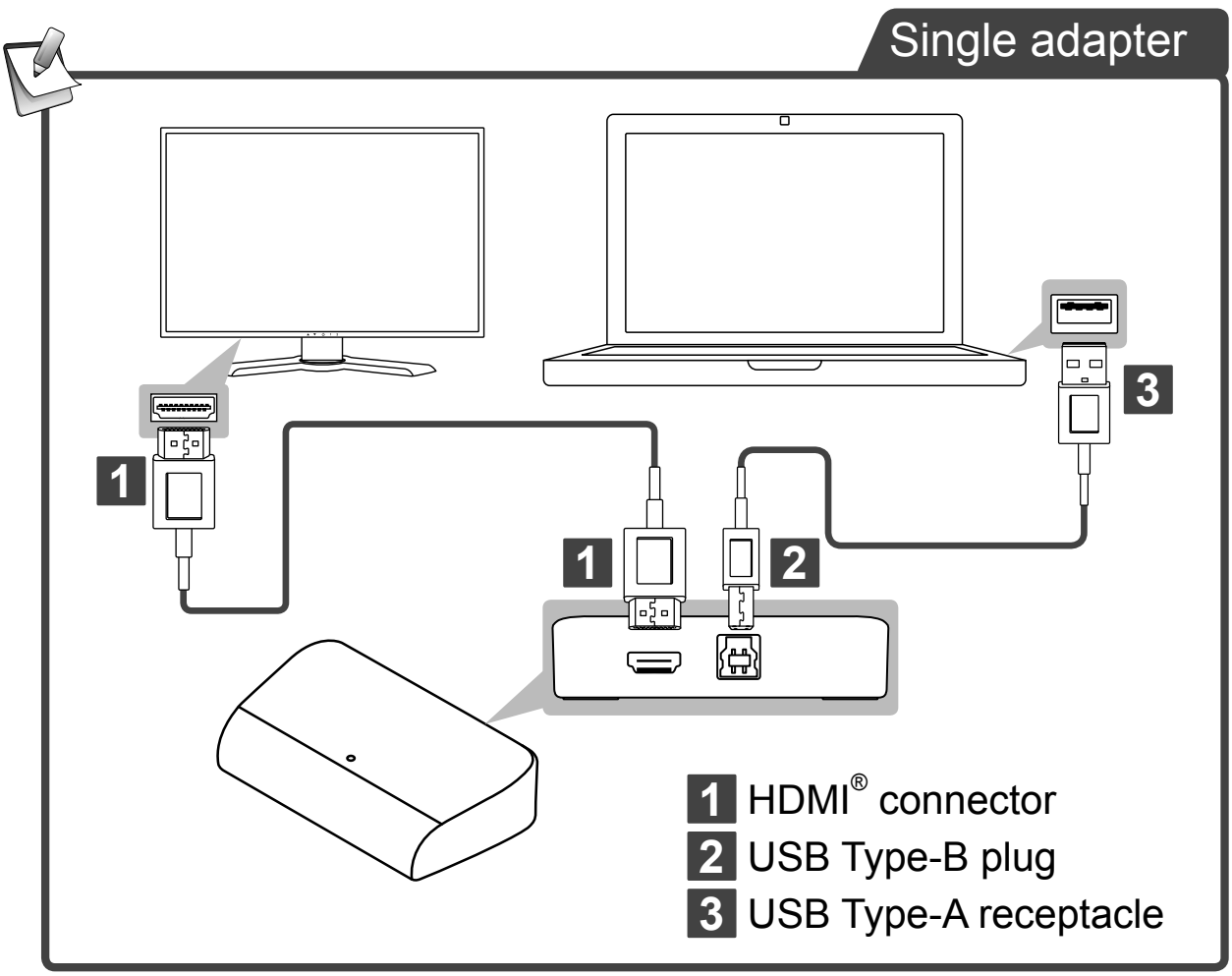
1 **Power LED:** Lights blue when power is on.

2 **HDMI® receptacle:** Connect a desired monitor which built-in HDMI® connector.

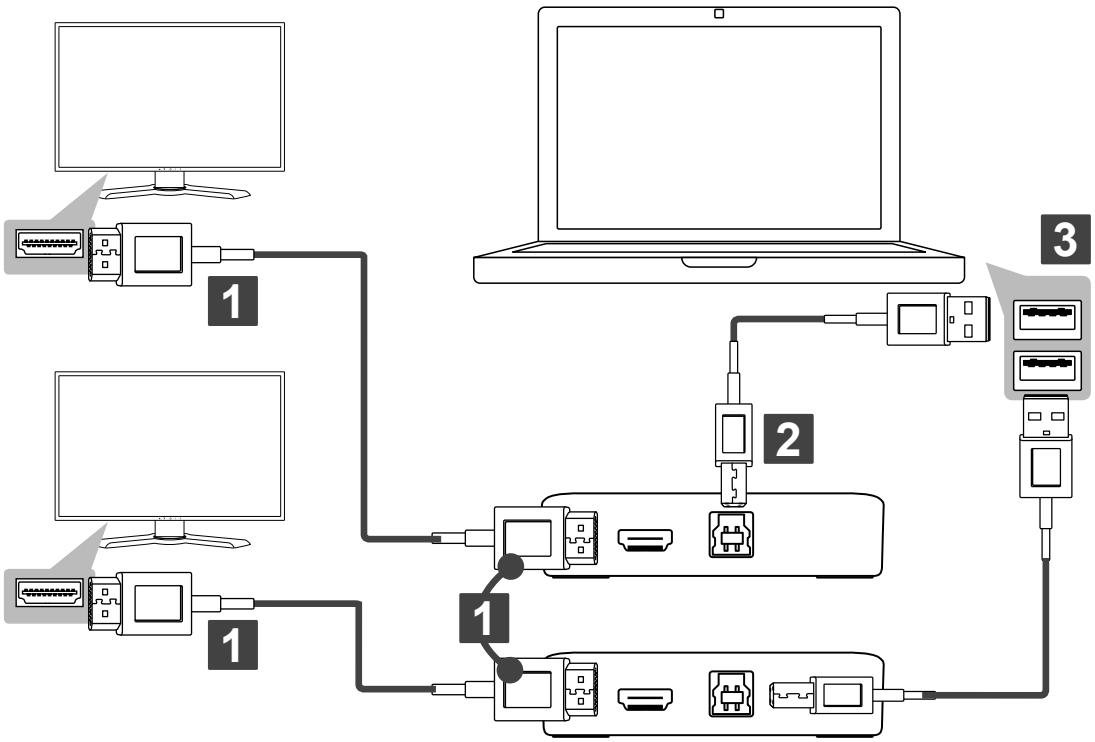
3 **USB type-B receptacle:** Connect to a desired PC.

Connection

- Plug one end of HDMI® cable into the adapter's HDMI® receptacle, and the other end of HDMI® cable into a monitor's HDMI® receptacle
- Plug the USB type-B connector into the adapter's USB type-B receptacle, and the other end (USB type-A plug) into a PC.



Dual adapters



1 HDMI® connector **2** USB Type-B plug
3 USB Type-A receptacle

Installation and preparation

Caution: DO NOT connect the USB to HDMI® Adapter to a computer before installing the provided driver.

Note that the following strings and screen shots shown on this user's manual may vary slightly from each operation.

For Windows 7® user

1. Insert the supplied driver CD into a computer's CD/DVD-ROM.

2. Click <**Run Setup.exe**> to start the installation.

AutoPlay
DVD RW Drive (E:) Driver
Always do this for software and games:
Install or run program from your media
Run Autorun.exe
Publisher not specified
General options
Open folder to view files
using Windows Explorer
View more AutoPlay options in Control Panel

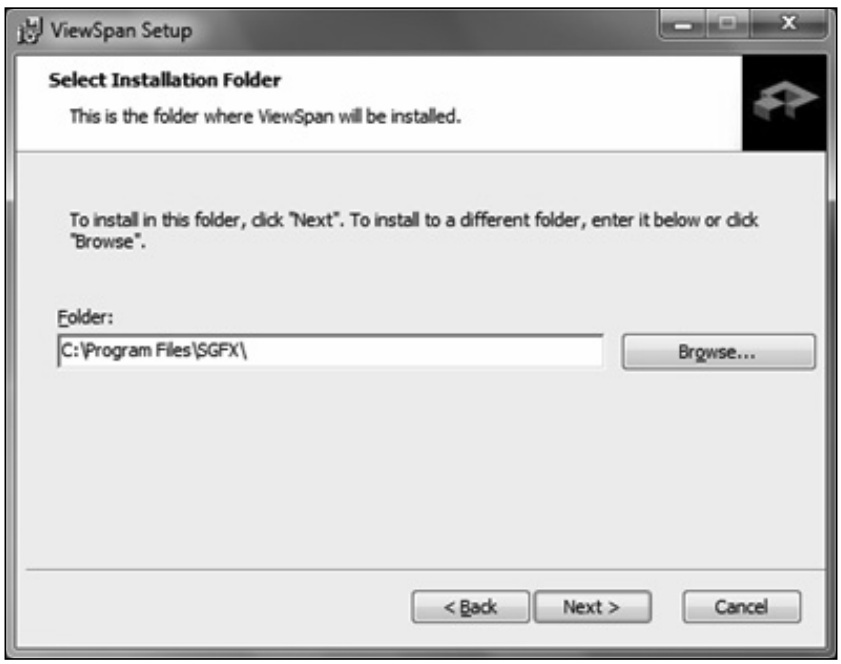
Note:
If the **AutoPlay** does not appear automatically, locate and double-click on the **Setup.exe** file in the driver folder to launch the setup.
Enter the administrator password and then click <**Yes**> to start the installation if a **User Account Control** dialog box appears.

3. Click <**Next**> when the welcome screen pop-up.

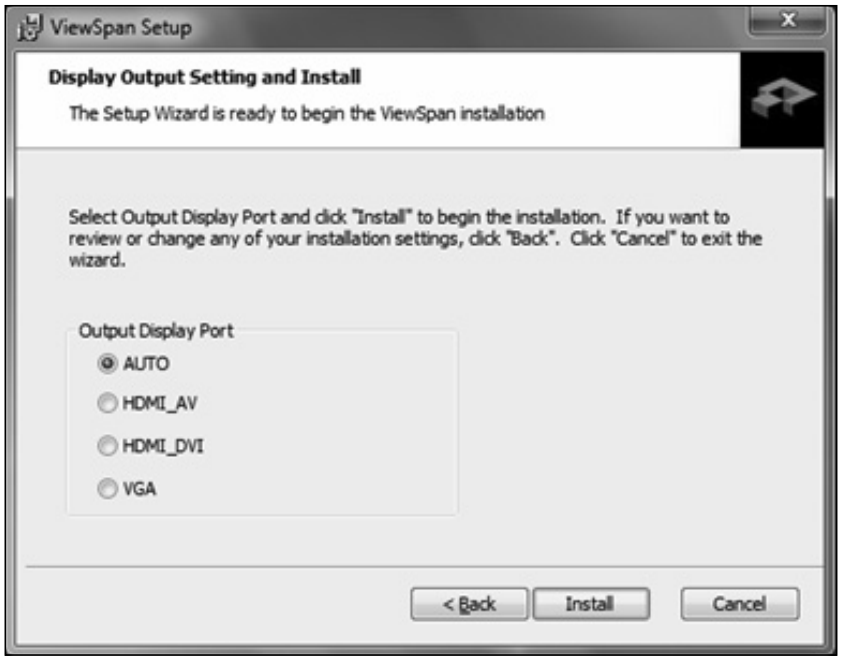
4. Tick <**I accept to ... agreement**> when the license agreement appears on the screen, and then click <**Next**>.

ViewSpan Setup
End-User License Agreement
Please read the following license agreement carefully
YOU (THE INDIVIDUAL CLICKING ON THE ACCEPT BUTTON BELOW) FOR YOURSELF OR ANY ENTITY FOR WHOM YOU ARE AN EMPLOYEE OR AGENT AND WHICH OBTAINS THE SOFTWARE MADE THE SUBJECT OF THIS SOFTWARE LICENSE AGREEMENT, AGREE TO THE TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT (REFERRED TO AS THIS AGREEMENT or Agreement) BY EITHER (1) CLICKING ON THE ACCEPT BUTTON BELOW, OR (2) ACCESSING OR USING ANY OF SUCH SOFTWARE PROGRAMS OR CODE. PLEASE READ THIS
I accept the terms in the License Agreement
I do not accept the terms in the License Agreement
< Back
Next >
Cancel

5. Click <**Browse**> to choose the destination folder, and then click <**Next**>.


ViewSpan Setup
Select Installation Folder
This is the folder where ViewSpan will be installed.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\SGFX\
Browse...
< Back
Next >
Cancel

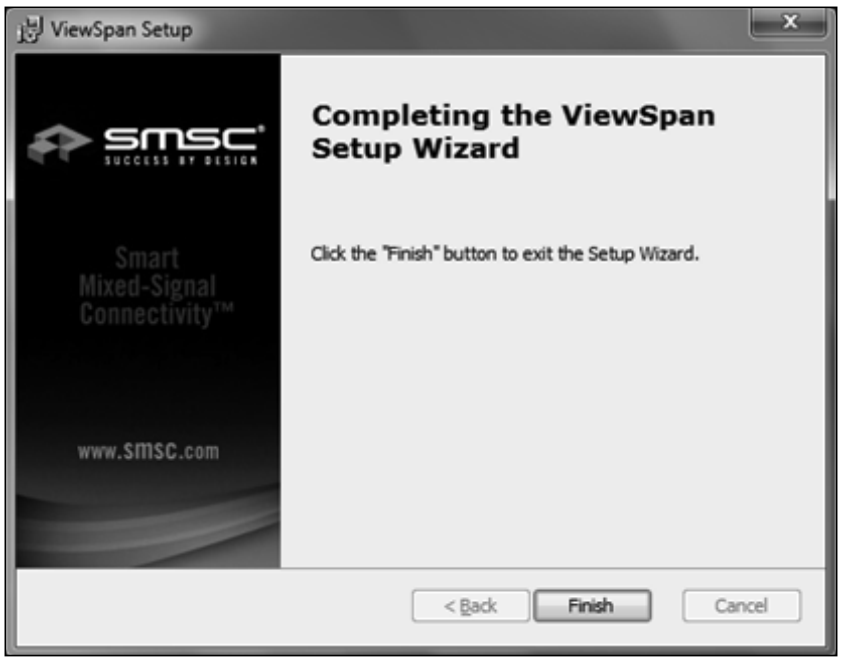
6. Select <**Auto**> for the output display port, and then click <**Install**>.


ViewSpan Setup
Display Output Setting and Install
The Setup Wizard is ready to begin the ViewSpan installation
Select Output Display Port and click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Output Display Port
AUTO
HDMI_AV
HDMI_DVI
VGA
< Back
Install
Cancel

7. Tick <**Always trust software from "SMSC"**>, and then click <**Install**> to continue the procedure.

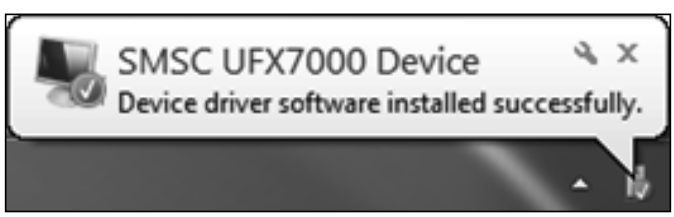
Windows Security
Would you like to install this device software?
Name: SMSC
Publisher: SMSC
Always trust software from "SMSC".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

8. Click <**Finish**> to complete the installation.



9. Connect the USB to the HDMI® Adapter to the computer after the driver has been installed. For connection details, refer to the chapter of **Connection**.

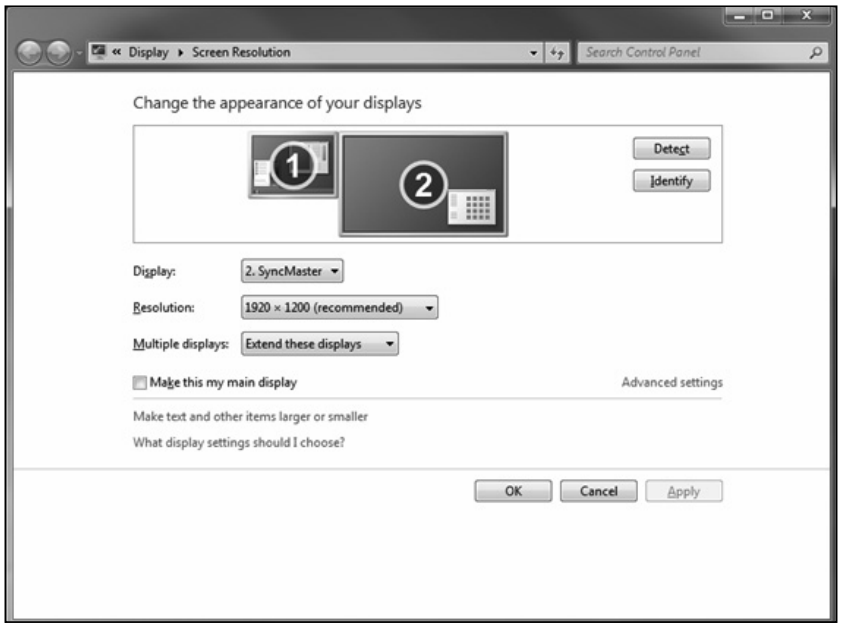
10. When the operation system detects the adapter, the reminder message will appear on the system tray as below.



Note: Click <**Yes**> to restart or <**No**> to manually restart later, if prompting to restart computer message appears.

11. By default, the monitor will display by mirror mode if connecting the adapter with a laptop. The monitor will display by extended mode if connecting the adapter with a desktop.

12. To change the status of display mode, position the mouse anywhere on the Windows® desktop, and then right-click to select <**Screen Resolution**>.



For Windows Vista® user

1. Insert the supplied driver CD into a computer's CD/DVD-ROM.

2. Click <**Run Setup.exe**> to start the installation.

Note:

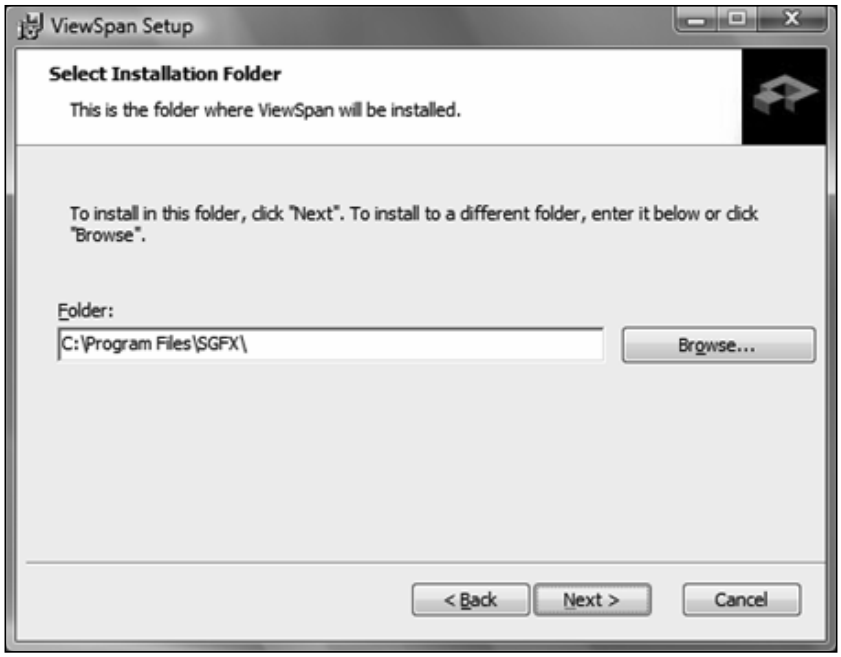
- If the **AutoPlay** does not appears automatically, locate and double-click on the **Setup.exe** file in the driver folder to launch the setup.
- Enter the administrator password and then click <**Allow**> to start the installation if a **User Account Control** dialog box appears.

3. Click <**Next**> when the welcome screen pop-up.

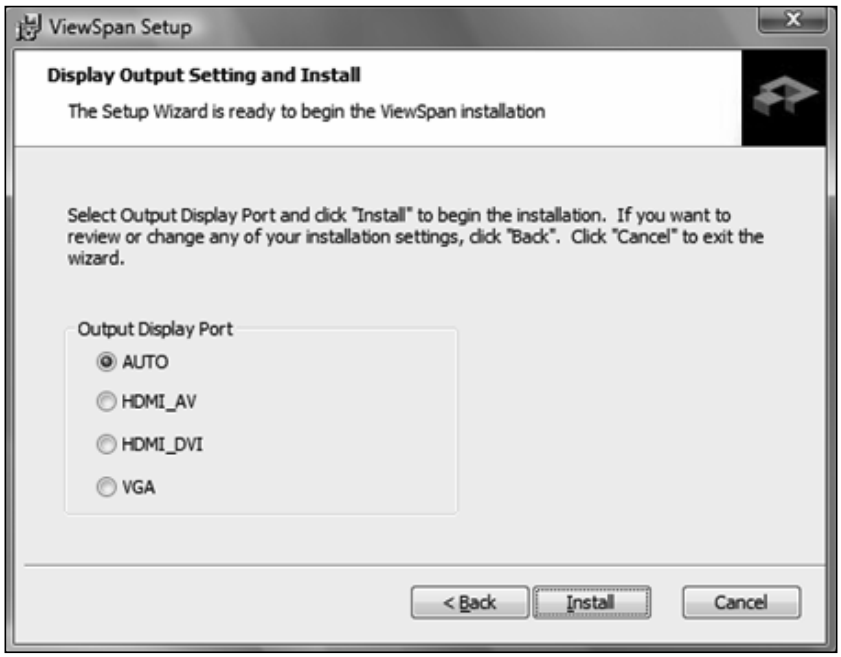
4. Tick <**I accept to ... agreement**> when the license agreement appears on the screen, and then click <**Next**>.

ViewSpan Setup
End-User License Agreement
Please read the following license agreement carefully
YOU (THE INDIVIDUAL CLICKING ON THE ACCEPT BUTTON BELOW) FOR YOURSELF OR ANY ENTITY FOR WHOM YOU ARE AN EMPLOYEE OR AGENT AND WHICH OBTAINS THE SOFTWARE MADE THE SUBJECT OF THIS SOFTWARE LICENSE AGREEMENT, AGREE TO THE TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT (REFERRED TO AS THIS AGREEMENT or Agreement) BY EITHER (1) CLICKING ON THE ACCEPT BUTTON BELOW, OR (2) ACCESSING OR USING ANY OF SUCH SOFTWARE PROGRAMS OR CODE. PLEASE READ THIS
I accept the terms in the License Agreement
I do not accept the terms in the License Agreement
< Back
Next >
Cancel

5. Click <**Browse**> to choose the destination folder, and then click <**Next**>.


ViewSpan Setup
Select Installation Folder
This is the folder where ViewSpan will be installed.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\SGFX\
Browse...
< Back
Next >
Cancel

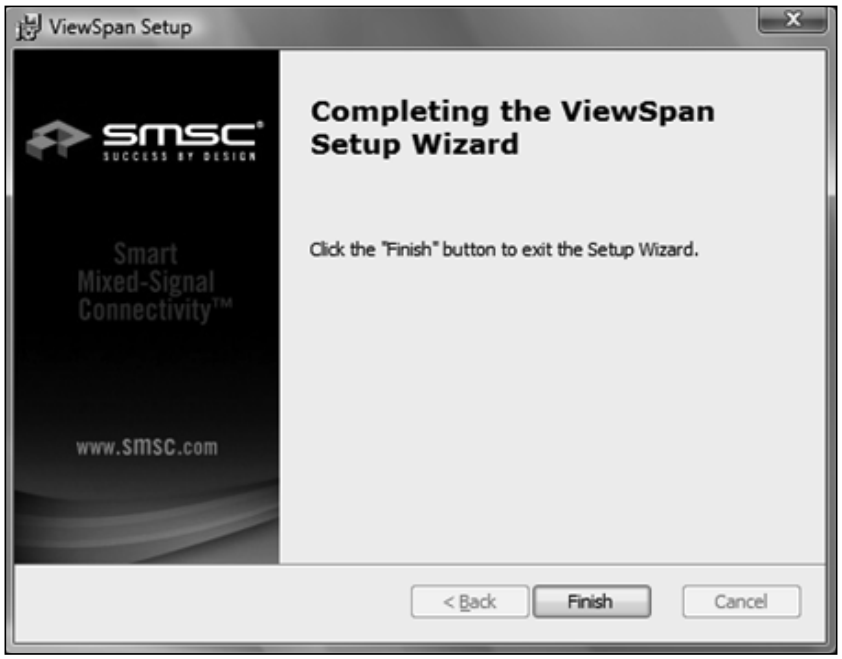
6. Select <**Auto**> for the output display port, and then click <**Install**>.


ViewSpan Setup
Display Output Setting and Install
The Setup Wizard is ready to begin the ViewSpan installation
Select Output Display Port and click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Output Display Port
AUTO
HDMI_AV
HDMI_DVI
VGA
< Back
Install
Cancel

7. Tick <**Always trust software from "SMSC"**>, and then click <**Install**> to continue the procedure.

Windows Security
Would you like to install this device software?
Name: SMSC
Publisher: SMSC
Always trust software from "SMSC".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

8. Click <**Finish**> to completed the installation.



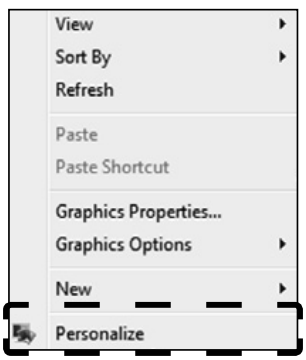
9. Connect the USB to the HDMI® Adapter to the computer after the driver has been installed. For connection details, refer to the chapter of **Connection**.

10. When the operation system detects the adapter, the reminder message will appear on the system tray as below.

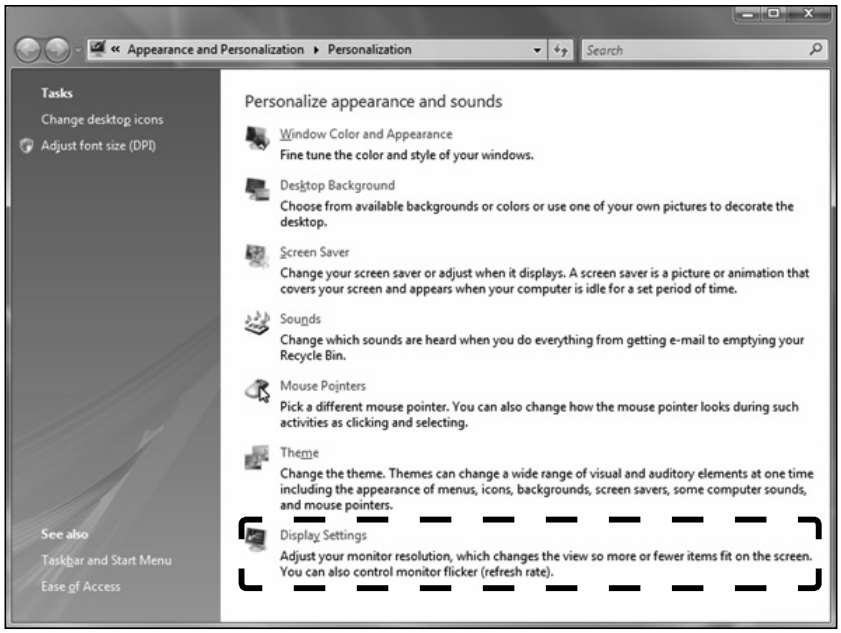
Note: Click <**Yes**> to restart or <**No**> to manually restart later, if prompting to restart computer message appears.

11. By default, the monitor will display by extended mode if connecting the adapter with a laptop.

12. To change the status of display mode, position the mouse anywhere on the Windows® desktop, and then right-click to select <**Personalize**>.



13. Click <**Display Settings**> to enter the configuration page.


« Appearance and Personalization ▸ Personalization
Search
Tasks
Change desktop icons
Adjust font size (DPI)
Personalize appearance and sounds
Window Color and Appearance
Fine tune the color and style of your windows.
Desktop Background
Choose from available backgrounds or colors or use one of your own pictures to decorate the desktop.
Screen Saver
Change your screen saver or adjust when it displays. A screen saver is a picture or animation that covers your screen and appears when your computer is idle for a set period of time.
Sounds
Change which sounds are heard when you do everything from getting e-mail to emptying your Recycle Bin.
Mouse Pointers
Pick a different mouse pointer. You can also change how the mouse pointer looks during such activities as clicking and selecting.
Theme
Change the theme. Themes can change a wide range of visual and auditory elements at one time including the appearance of menus, icons, backgrounds, screen savers, some computer sounds, and mouse pointers.
Display Settings
Adjust your monitor resolution, which changes the view so more or fewer items fit on the screen. You can also control monitor flicker (refresh rate).
See also
Taskbar and Start Menu
Ease of Access

For Windows XP® user

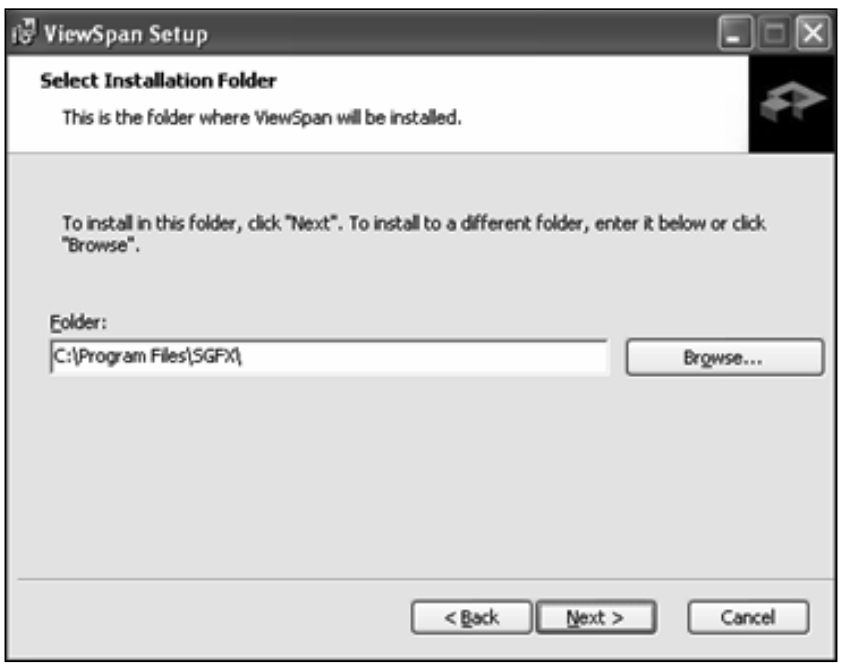
1. Insert the supplied driver CD into a computer's CD/DVD-ROM.

2. Click <**Next**> when the welcome screen pop-up.

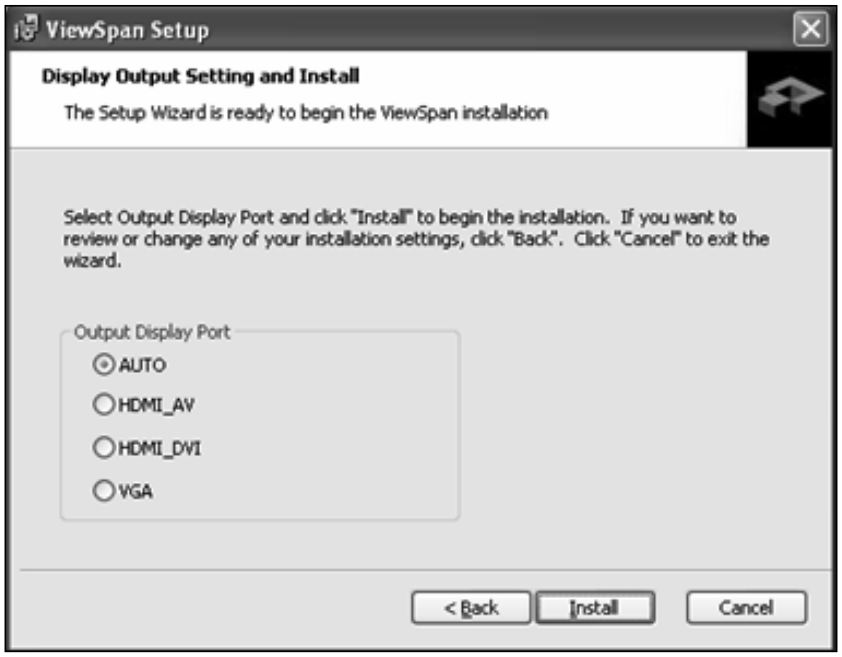
4. Tick <**I accept to ... agreement**> when the license agreement appears on the screen, and then click <**Next**>.

ViewSpan Setup
End-User License Agreement
Please read the following license agreement carefully
YOU (THE INDIVIDUAL CLICKING ON THE ACCEPT BUTTON BELOW) FOR YOURSELF OR ANY ENTITY FOR WHOM YOU ARE AN EMPLOYEE OR AGENT AND WHICH OBTAINS THE SOFTWARE MADE THE SUBJECT OF THIS SOFTWARE LICENSE AGREEMENT, AGREE TO THE TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT (REFERRED TO AS THIS AGREEMENT or Agreement) BY EITHER (1) CLICKING ON THE ACCEPT BUTTON BELOW, OR (2) ACCESSING OR USING ANY OF SUCH SOFTWARE PROGRAMS OR CODE. PLEASE READ THIS
I accept the terms in the License Agreement
I do not accept the terms in the License Agreement
< Back
Next >
Cancel

5. Click <**Browse**> to choose the destination folder, and then click <**Next**>.


ViewSpan Setup
Select Installation Folder
This is the folder where ViewSpan will be installed.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\SGFX\
Browse...
< Back
Next >
Cancel

6. Select <**Auto**> for the output display port, and then click <**Install**>.


ViewSpan Setup
Display Output Setting and Install
The Setup Wizard is ready to begin the ViewSpan installation
Select Output Display Port and click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Output Display Port
AUTO
HDMI_AV
HDMI_DVI
VGA
< Back
Install
Cancel

7. During the installation, the **Windows Logo testing** warning message may pop-up several times, click <**Continue Anyway**>.

Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

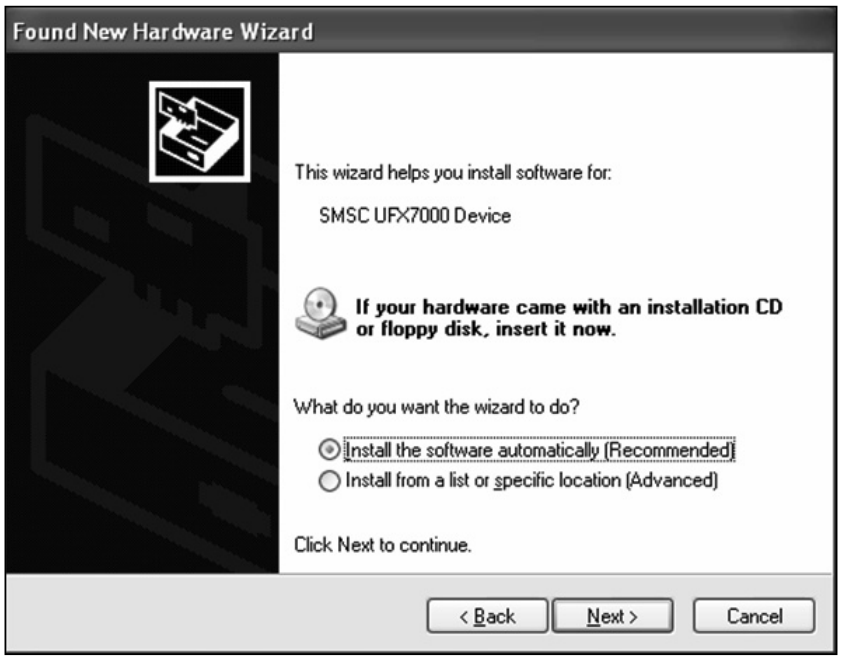
8. Click <**Finish**> to complete the installation.

9. Connect the USB to the HDMI® Adapter to the computer after the driver has been installed. For connection details, refer to the chapter of **Connection**.

10. Tick <**No, not this time**>, and then click <**Next**> to continue when **the Found New Hardware Wizard** pop up on the screen.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

11. Tick <**Install the software automatically (Recommended)**>, and then click <**Next**>.


Found New Hardware Wizard
This wizard helps you install software for:
SMSC UFX7000 Device
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

12. When the installation has been completed, click <**Finish**>.

13. When the operation system detects the adapter, the reminder message will appear on the system tray as below.

14. Click <**Continue Anyway**> to continue.

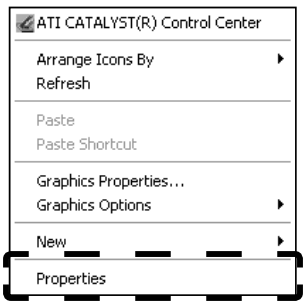
Hardware Installation
The software you are installing for this hardware:
SMSC XDDM Graphics Mirror Driver
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

15. Click <**Yes**> to restart or <**No**> to manually restart later, if prompting to restart computer message appears.

System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

16. By default, the monitor will display by extended mode if connecting the adapter with a computer.

17. To change the status of display mode, position the mouse anywhere on the Windows® desktop, and then right-click to select <**Properties**>.



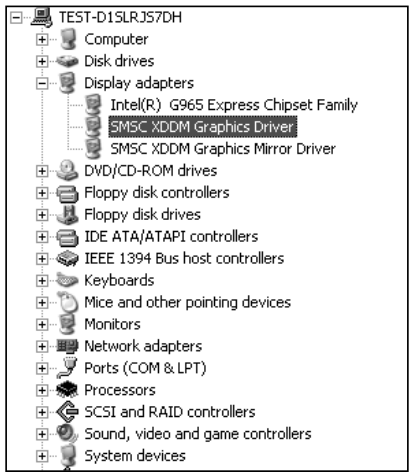
18. Click <**Settings**> tab to enter the configuration page.

Verifying the driver

To verify the driver of the adapter, follow the step below to open the **Device Manager** on Windows®.

1. Following the path as below to open the device manager
   Windows 7®: **Control Panel\System and Security\ System\Device Manager**
   Windows Vista®: **Control Panel\System Maintenance\ Device Manager**
   Windows XP®: **Control Panel\System\Hardware\Device Manager**

2. A string similar to **SMSC ..Graphic Driver** device should be displayed.



Note: If there is a (question) or (exclamation) mark next to that item, then the driver is not properly installed. Please delete the item, unplug the adapter and repeat the installation steps.

Using the adapter

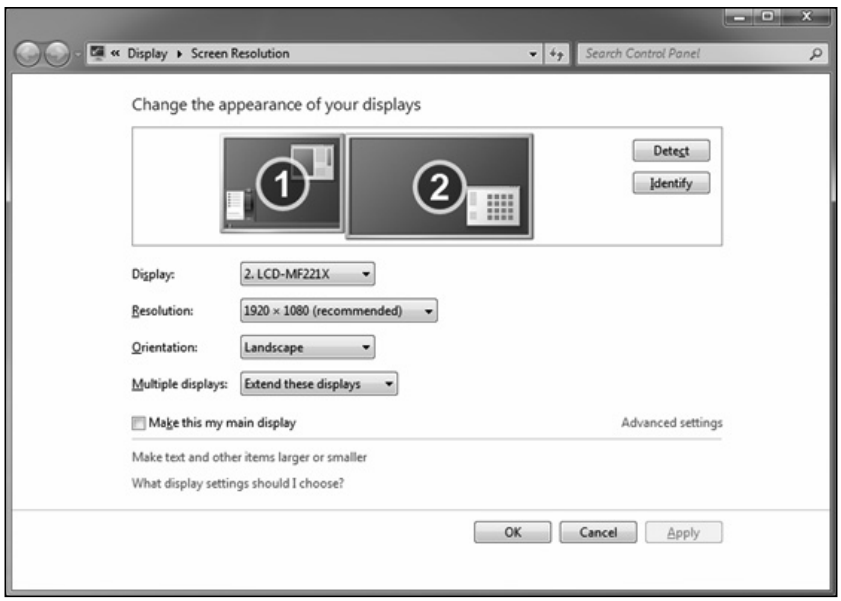
Once the software and hardware installation has completed, the secondary monitor can be configured as extended mode, mirror mode or primary display.

Extended mode

In this so-called “extended mode”, your display will be spread over the secondary monitor(s). This mode allows you to perform multiple tasks more effectively without overlapping windows.

For Windows 7® user

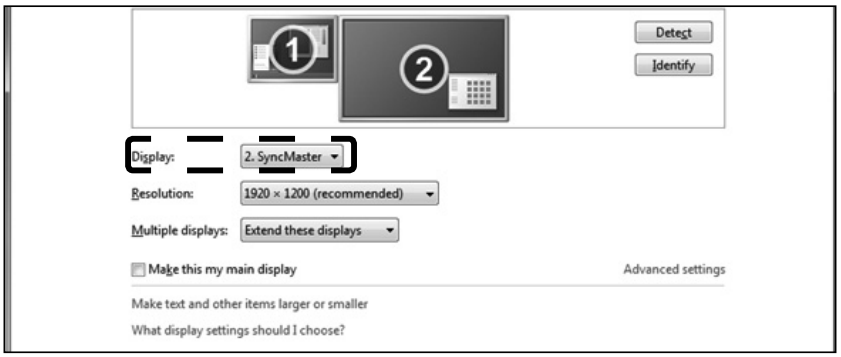
1. Position the mouse anywhere on the Windows® desktop, and then right-click to select <**Screen Resolution**>.



2. Drag the icons in the window at the top of the screen to match the physical arrangement of primary monitor and secondary monitor.

The secondary monitor connected to the adapter may be identified as either "2" or “3”, depending on your computer, although there may not be a total of 3 screens connected.

3. In the **Display** drop-down menu, select the monitor which has been to assigned to the secondary monitor from step 2.



3. Select <**Extend these displays**> in the **Multiple displays** drop-down menu, and then click <**Apply**>.

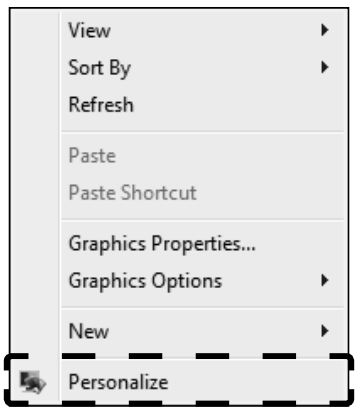
4. Click <**OK**> to exit the settings screen. Once the setting is finished simply drag and drop the application windows to secondary monitor. However, some applications may not support display on the extended desktop.

5. Alternatively, press <⊞ (**Windows**)+**P**> button to bring up the menu, and then select <**Extend**> on Windows 7®.

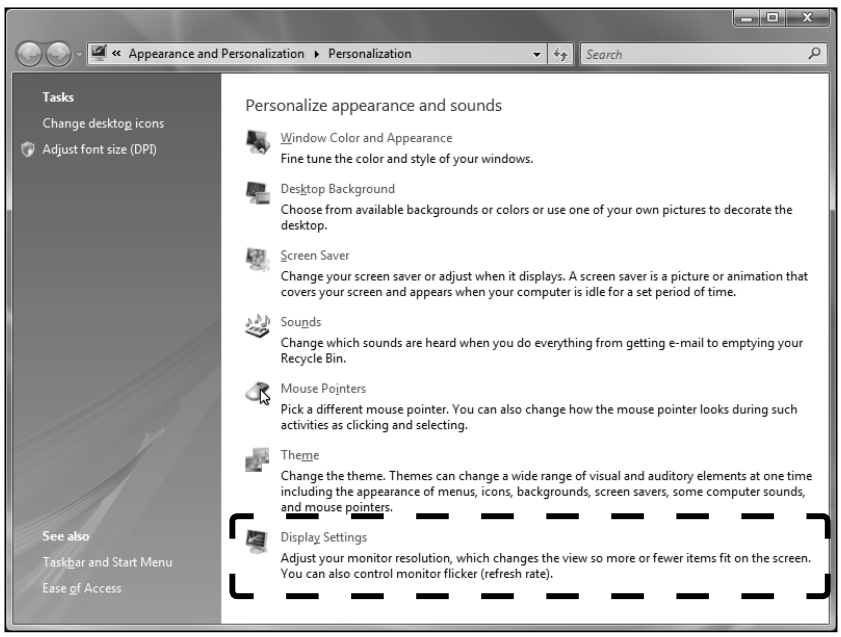
Note: If you're in extended mode but the secondary monitor is not connected, the desktop still pans to the secondary monitor and it's possible that your cursor has moved to the extended desktop so that you cannot find it on the primary display. To solve the problem in such a case, connect the secondary monitor to the adapter or keep moving your mouse to try or unplug the adapter first to restore the cursor.

For Windows Vista® user

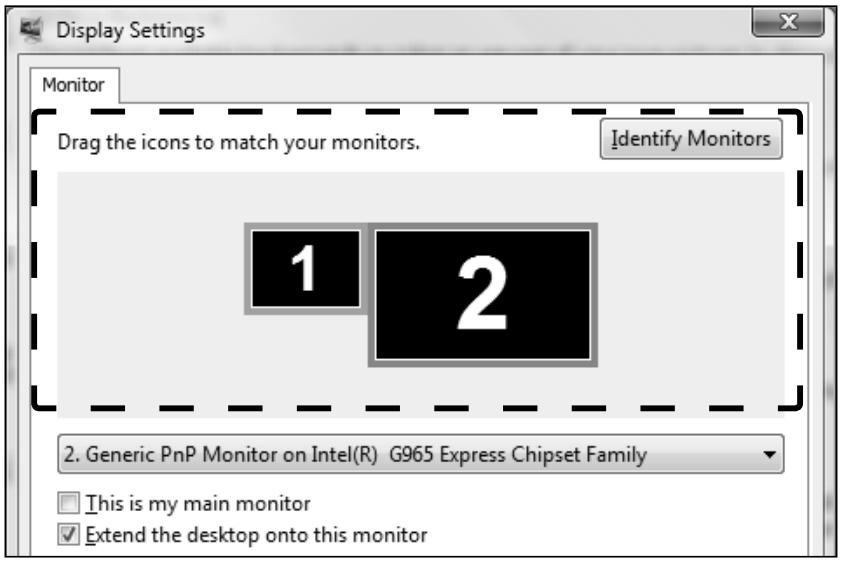
1. Position the mouse anywhere on the Windows® desktop, and then right-click to select <**Properties**>.



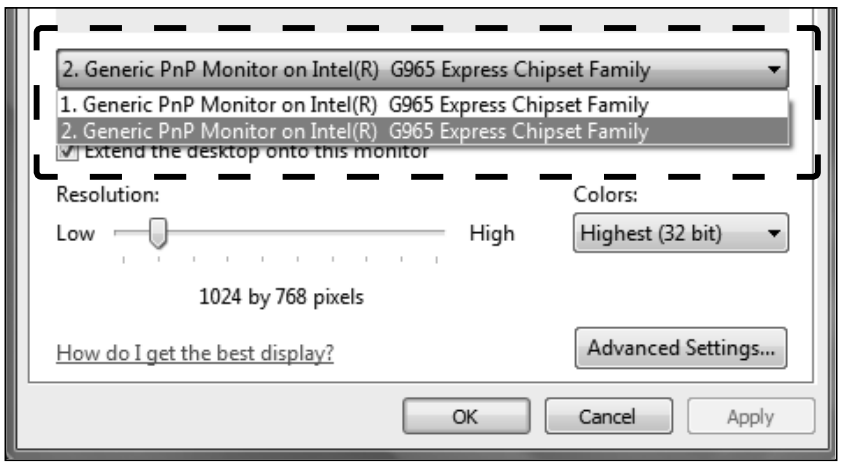
2. Click <**Display Settings**>.


Appearance and Personalization ▸ Personalization
Search
Tasks
Change desktop icons
Adjust font size (DPI)
Personalize appearance and sounds
Window Color and Appearance
Fine tune the color and style of your windows.
Desktop Background
Choose from available backgrounds or colors or use one of your own pictures to decorate the desktop.
Screen Saver
Change your screen saver or adjust when it displays. A screen saver is a picture or animation that covers your screen and appears when your computer is idle for a set period of time.
Sounds
Change which sounds are heard when you do everything from getting e-mail to emptying your Recycle Bin.
Mouse Pointers
Pick a different mouse pointer. You can also change how the mouse pointer looks during such activities as clicking and selecting.
Theme
Change the theme. Themes can change a wide range of visual and auditory elements at one time including the appearance of menus, icons, backgrounds, screen savers, some computer sounds, and mouse pointers.
Display Settings
Adjust your monitor resolution, which changes the view so more or fewer items fit on the screen. You can also control monitor flicker (refresh rate).
See also
Taskbar and Start Menu
Ease of Access

3. Drag the icons in the window at the top of the screen to match the physical arrangement of primary monitor and secondary monitor.



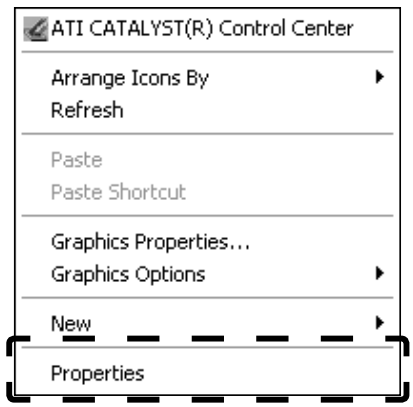
4. In the **Display** drop-down menu, select the monitor which has been to assigned to the secondary monitor from step 3.



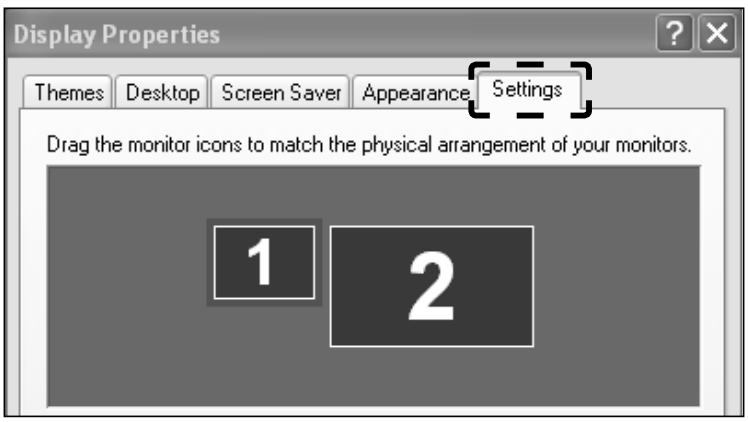
5. Tick <**Extend the desktop onto this monitor**>, and then click <**Apply**>.

For Windows XP® user

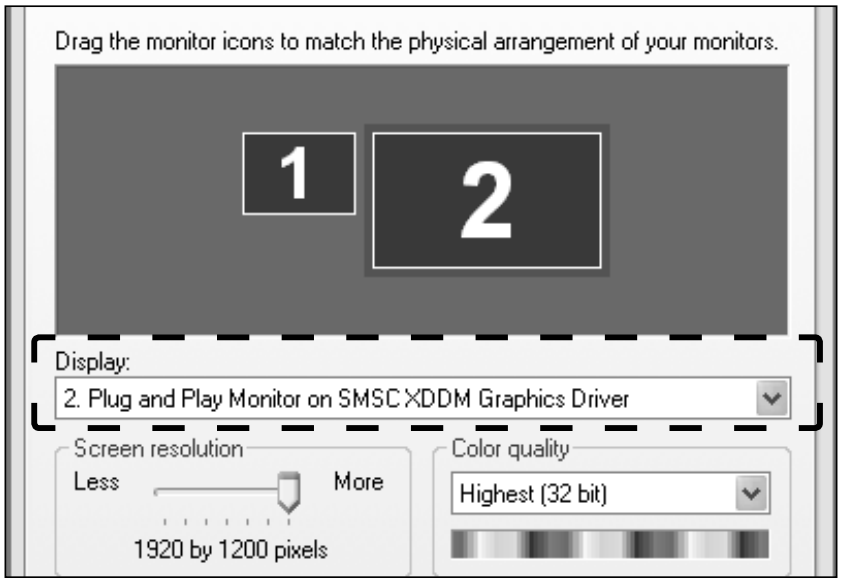
1. Position the mouse anywhere on the Windows® desktop, and then right-click to select <**Properties**>.



2. Click <**Settings**> tab.



3. In the **Display** drop-down menu, select the monitor which has been to assigned to the secondary monitor from step 2.

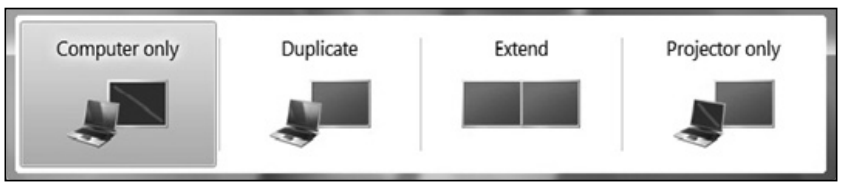


4. Tick <**Extend my Windows desktop onto this monitor**>, and then click <**Apply**>.

Mirror the Windows® desktop

This feature allows the secondary monitor to duplicates what is on the primary display. By default, the connected monitor will be displayed by mirror mode when using Windows® XP or Windows Vista®.

To switch to the screen to mirror mode, press <**Windows**+**P**> button to bring up the menu and then cycle through it on Windows 7®.

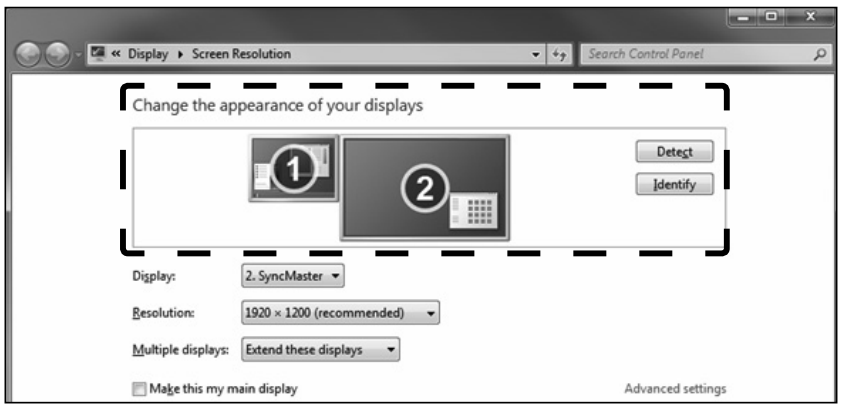


Note: In mirror mode, the adapter will automatically select the settings (screen resolution, color quality and refresh rate) for the secondary monitor. But you can manually adjust the settings as required. However, the settings of the secondary monitor are limited by that of the primary monitor. For example, even though your secondary monitor supports a resolution of up to 1920x1080, you can only configure it to use 1280x1024 due to the primary monitor only supports a resolution of up to 1280x1024.

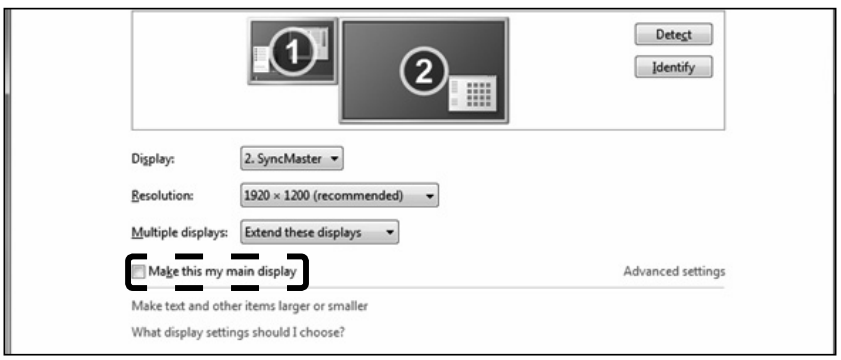
Be the primary monitor

1. Following the path as below to open the configuration page of monitor.
   Windows 7®: Right-click to select <**Screen Resolution**>
   Windows Vista®: Right-click to select <**Properties**>, and then click <**Display Settings**>
   Windows XP®: Right-click to select <**Properties**>, and then click <**Settings**>

2. Drag the icons in the window at the top of the screen to match the physical arrangement of primary monitor and secondary monitor.



3. Tick the <**Make this my main display**> on Windows 7®, <**This is my main monitor**> on Windows Vista®, or <**Use this device as the primary monitor**> on Windows XP®, and then click <**Apply**>.



On some PCs and laptops it is necessary to disable the main display (i.e. uncheck the **Extend the desktop onto this monitor** or **Extend my Windows desktop onto this monitor** box for the main display) as part of the same settings change.

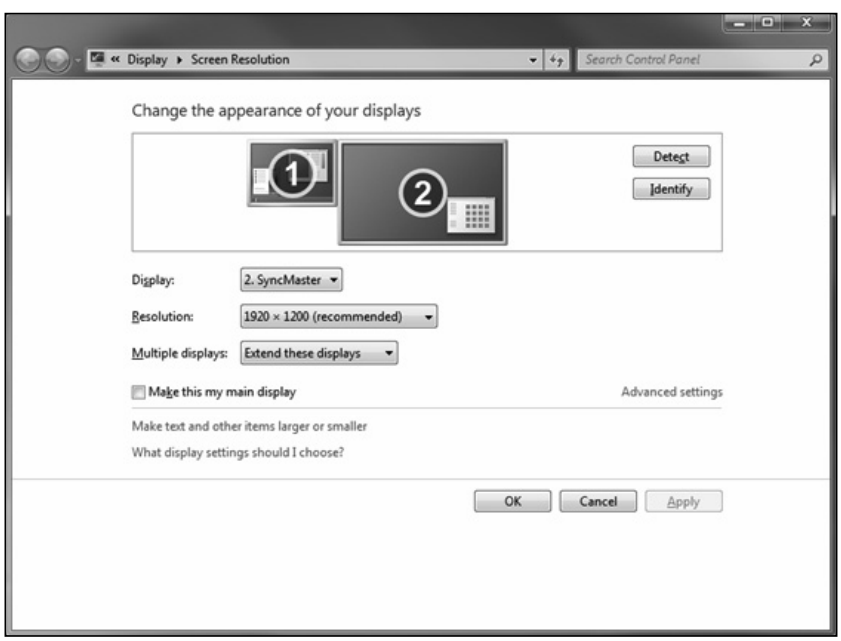
4. Click <**OK**> to exit the settings screen.

Note: The add-on monitor stays primary if the PC enters hibernate, suspend mode or is rebooted. If the add-on monitor is unplugged, the main display becomes primary again.

Adjusting resolution and refresh rate

- **Resolution:** The number of pixels displayed on screen horizontally and vertically.
- **Refresh rate:** Measures the speed that the entire screen is rescanned. Higher frequencies reduce flicker.

1. Position the mouse anywhere on the Windows® desktop, right-click to select **Screen Resolution** on Windows 7®, **Properties** > **Display Settings** on Windows Vista® or **Properties** > **Settings** on Windows XP®.



2. In the **Display** drop-down menu, select the desired monitor.

3. Select a preferred resolution according to the table below.

	Name	Refresh rates available at 16 bit color quality	Refresh rates available at 32 bit color quality
640x480	VGA	60 72 75 85	60 72 75 85
800x600	SVGA	56 60 72 75 85	56 60 72 75 85
1024x768	XGA	60 70 75 85	60 70 75 85
1280x720	720p	60	60
1280x768	WXGA+	60 75 85	60 75 85
1280x800	WXGA	60	60
1280x1024	SXGA	60 75 85	60 75
1366x768	WXGA+	60	60
1400x1050	SXGA+	60 75 85	60 75 85
1600x1200	UXGA	60	60
1680x1050	WSXGA+	60	60
1920x1080	1080p	60	60
2048x1152		60	60

Note that interlaced modes and reduced blanking modes are not supported.

4. To change the refresh rate, click <**Advanced settings**> and then click <**Monitor**>.

5. Select a refresh rate from the **Screen refresh rate** drop-down list and then click <**Apply**>.

6. Click <**OK**> to exit the settings screen.

Note: Before adjusting the resolution and refresh rate, check these options from the user's manual of monitor. Most monitors cannot be put into an unsupported, which might damage it. For example, if the monitor does not support a resolution of 1920x1080, then 1920x1080 is not possible to set even the connected adapter supports 1920x1080.

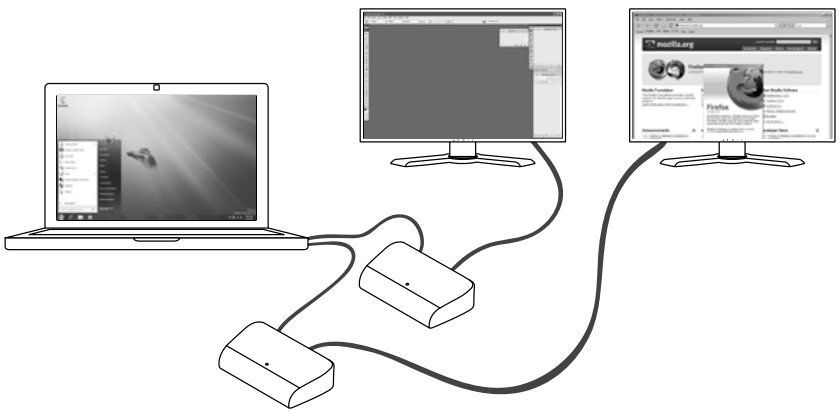
Standby and hibernate, shut down and restart

- When the adapter is connected to a computer and an external monitor, if the computer goes into standby or hibernate mode, the external monitor display goes blank.

- When the computer returns to an active state, the external monitor display keeps the same settings it had before the computer went into standby or hibernate mode. However, if the secondary monitor was set for extended mode, windows that were previously on the external monitor will not move back to that secondary monitor. Also, if the secondary monitor is in extended mode and the computer requires a login after standby or hibernate mode, the login screen appears on the primary computer monitor, not the external monitor.

- If the computer is shut down, restarted and logged in, again the secondary monitor returns to the same mode as it was before shutdown.

Using dual adapters



1. Install the driver as described in the **Installation and preparation** section.

2. Connect the adapters to a computer. The system will automatically complete the installation. For more connection details, refer to **Connection** section.

3. While two adapters are connected to a computer, in most cases both adapters' supports extended and mirror modes.

Disconnecting the adapter

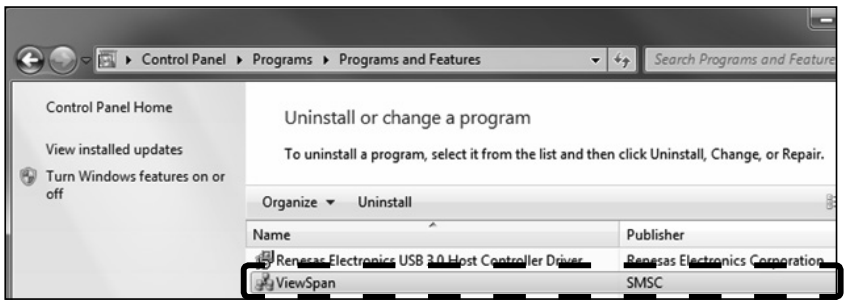
- If the adapter is unplugged from the computer, the secondary monitor goes blank. All windows and icons move to the primary screen.

- On reconnection of the adapter, the adapter returns to the same mode as it was before disconnection. However, windows and icons that were previously on the screen will not be moved back.

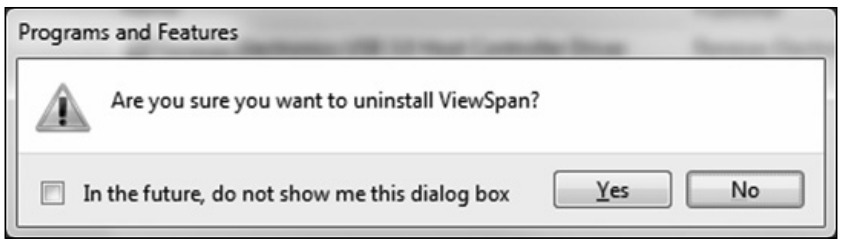
Uninstall the adapter and driver

1. Open the **Control Panel** > **Programs** > **Programs and Features** on Windows 7®/Windows Vista®, and **Add or Remove Programs** on Windows XP®.

2. Select <**ViewSpan**> and click <**Uninstall or Remove**>.


Control Panel ▸ Programs ▸ Programs and Features
Search Programs and Feature
Control Panel Home
View installed updates
Turn Windows features on or off
Uninstall or change a program
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.
Organize
Uninstall
Name
Publisher
Renesas Electronics USB 3.0 Host Controller Driver
Renesas Electronics Corporation
ViewSpan
SMSC

3. Click <**Yes**> to confirm the removal. During the removal process a couple of DOS windows will pop up.



4. Click <**Yes**> to restart your computer and then unplug the adapter now.

Troubleshooting

Q: The secondary monitor is blank

A:
- If the monitor power LED is green (in most cases)
  - Wait a moment for the monitor to show the video as sometimes it takes time for the secondary monitor to show the video.
  - Reboot the system to try again.
  - Make sure the computer is not in standby or hibernation mode, which will lead the secondary monitor to be blank.
- If the monitor power LED is red (in most cases)
  - Check if the connection is properly made.
  - Uninstall the driver, unplug the adapter and reinstall the driver to try again.
  - Uninstall other USB video adapter drivers, and then re-install the USB 3.0 to HDMI® Display Adapter's driver.

Q: The secondary monitor is flickering

A:
- In mirror mode, increase the refresh rate of the main monitor. This will in turn increase the refresh rate of the secondary monitor.
- In extended mode, increase the refresh rate of the secondary monitor.

Cannot play video file using Windows Media Player on the extended monitor or abnormal by full screen display

■ Upgrade it to Windows® SP2.

The motion is not smooth when playing video in full screen mode

■ Reduce the resolution of the display to 640x480 or 800x600.

■ Set the adapter to extended mode.

■ Terminate any other CPU intensive applications running on the computer.

■ As some media players require DirectX hardware support to correctly operate, try a different media player which requires less DirectX support.

■ Drag the media player to the secondary screen and close the player. Restart the player and it should open on the secondary monitor. Now try playing the media file again.

■ Try reducing the hardware acceleration level of the primary display (NOT the secondary monitor) to levels 1, 2 or 3 and restarting the media player. The hardware acceleration can be found by right-clicking on your desktop and click **Properties** > **Settings** > **Advanced** > **Troubleshoot**. Some players use this setting even when playing on a different display.

- The video playback may be unusual when the secondary monitor is mirroring the primary display and there is another extended screen connected to the computer. The extended screen must be disabled before the content will be correctly cloned to the secondary monitor.

In extended mode, the secondary monitor appears a black border around the desktop.

- This happens when the resolution used by the secondary monitor is larger than the resolution used by the primary monitor. Configure the secondary monitor to use the same resolution as the primary monitor.

Regulatory compliance

FCC conditions

This equipment has been tested and found to comply with Part 15 Class B of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

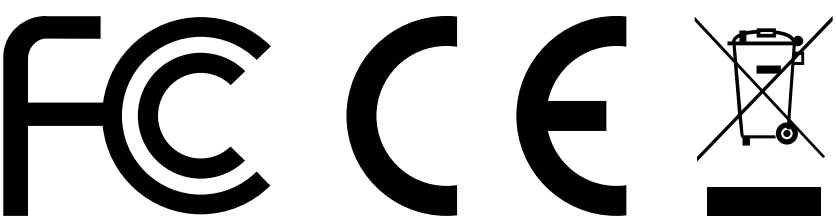
(2) This device must accept any interference received and include interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE information

For EU (European Union) member users: According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.



USB 3.0 to HDMI® Display Adapter
User's Manual